SEQUENCE LISTING

<110> INCYTE PHARMACEUTICALS, INC.
LAL, Preeti
YUE, Henry
TANG, Y. Tom
HILLMAN, Jennifer L.
BAUGHN, Mariah R.
YANG, Junming

<120> CARBOHYDRATE-MODIFYING ENZYMES

<130> PF-0687 PCT

<140> To Be Assigned
<141> Herewith

<150> 60/130,383
<151> 1999-04-21

<160> 10

<170> PERL Program

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<212> PRT
<213> Homo sapiens

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             20                  25                  30
Ser Arg Gly Gly Gln Gly Arg Gly Val Glu Lys Pro Pro His Leu
             35                  40                  45
Ala Ala Leu Ile Leu Ala Arg Gly Gly Ser Lys Gly Ile Pro Leu
             50                  55                  60
Lys Asn Ile Lys His Leu Ala Gly Val Pro Leu Ile Gly Trp Val
             65                  70                  75
Leu Arg Ala Ala Leu Asp Ser Gly Ala Phe Gln Ser Val Trp Val
             80                  85                  90
Ser Thr Asp His Asp Glu Ile Glu Asn Val Ala Lys Gln Phe Gly
             95                 100                 105
Ala Gln Val His Arg Arg Ser Ser Glu Val Ser Lys Asp Ser Ser
            110                 115                 120
Thr Ser Leu Asp Ala Ile Ile Glu Phe Leu Asn Tyr His Asn Glu
            125                 130                 135
Val Asp Ile Val Gly Asn Ile Gln Ala Thr Ser Pro Cys Leu His
            140                 145                 150
Pro Thr Asp Leu Gln Lys Val Ala Glu Met Ile Arg Glu Glu Gly
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                155                 160                 165
Tyr Asp Ser Val Phe Ser Val Val Arg Arg His Gln Phe Arg Trp
                170                 175                 180
Ser Glu Ile Gln Lys Gly Val Arg Glu Val Thr Glu Pro Leu Asn
                185                 190                 195
Leu Asn Pro Ala Lys Arg Pro Arg Arg Gln Asp Trp Asp Gly Glu
                200                 205                 210
Leu Tyr Glu Asn Gly Ser Phe Tyr Phe Ala Lys Arg His Leu Ile
                215                 220                 225
Glu Met Gly Tyr Leu Gln Gly Gly Lys Met Ala Tyr Tyr Glu Met
                230                 235                 240
Arg Ala Glu His Ser Val Asp Ile Asp Val Asp Ile Asp Trp Pro
                245                 250                 255
Ile Ala Glu Gln Arg Val Leu Arg Tyr Gly Tyr Phe Gly Lys Glu
                260                 265                 270
Lys Leu Lys Glu Ile Lys Leu Leu Val Cys Asn Ile Asp Gly Cys
                275                 280                 285
Leu Thr Asn Gly His Ile Tyr Val Ser Gly Asp Gln Lys Glu Ile
                290                 295                 300
Ile Ser Tyr Asp Val Lys Asp Ala Ile Gly Ile Ser Leu Leu Lys
                305                 310                 315
Lys Ser Gly Ile Glu Val Arg Leu Ile Ser Glu Arg Ala Cys Ser
                320                 325                 330
Lys Gln Thr Leu Ser Ser Leu Lys Leu Asp Cys Lys Met Glu Val
                335                 340                 345
Ser Val Ser Asp Lys Leu Ala Val Val Asp Glu Trp Arg Lys Glu
                350                 355                 360
Met Gly Leu Cys Trp Lys Glu Val Ala Tyr Leu Gly Asn Glu Val
                365                 370                 375
Ser Asp Glu Glu Cys Leu Lys Arg Val Gly Leu Ser Gly Ala Pro
                380                 385                 390
Ala Asp Ala Cys Ser Thr Ala Gln Lys Ala Val Gly Tyr Ile Cys
                395                 400                 405
Lys Cys Asn Gly Gly Arg Gly Ala Ile Arg Glu Phe Ala Glu His
                410                 415                 420
Ile Cys Leu Leu Met Glu Lys Val Asn Asn Ser Cys Gln Lys
                425                 430
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<210> 2
<211> 302
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 983984CD1

<400> 2

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Val Phe Ser Ala Val Tyr Ile Leu Leu Cys Cys Trp Ala Gly Leu
                20                  25                  30
Pro Leu Cys Leu Ala Thr Cys Leu Asp His His Phe Pro Thr Gly
                35                  40                  45
Ser Arg Pro Thr Val Pro Gly Pro Leu His Phe Ser Gly Tyr Ser
```

```
                  50                  55                  60
Ser Val Pro Asp Gly Lys Pro Leu Val Arg Glu Pro Cys Arg Ser
                  65                  70                  75
Cys Ala Val Val Ser Ser Ser Gly Gln Met Leu Gly Ser Gly Leu
                  80                  85                  90
Gly Ala Glu Ile Asp Ser Ala Glu Cys Val Phe Arg Met Asn Gln
                  95                 100                 105
Ala Pro Thr Val Gly Phe Glu Ala Asp Val Gly Gln Arg Ser Thr
                 110                 115                 120
Leu Arg Val Val Ser His Thr Ser Val Pro Leu Leu Leu Arg Asn
                 125                 130                 135
Tyr Ser His Tyr Phe Gln Lys Ala Arg Asp Thr Leu Tyr Met Val
                 140                 145                 150
Trp Gly Gln Gly Arg His Met Asp Arg Val Leu Gly Gly Arg Thr
                 155                 160                 165
Tyr Arg Thr Leu Leu Gln Leu Thr Arg Met Tyr Pro Gly Leu Gln
                 170                 175                 180
Val Tyr Thr Phe Thr Glu Arg Met Met Ala Tyr Cys Asp Gln Ile
                 185                 190                 195
Phe Gln Asp Glu Thr Gly Lys Asn Arg Arg Gln Ser Gly Ser Phe
                 200                 205                 210
Leu Ser Thr Gly Trp Phe Thr Met Ile Leu Ala Leu Glu Leu Cys
                 215                 220                 225
Glu Glu Ile Val Val Tyr Gly Met Val Ser Asp Ser Tyr Cys Arg
                 230                 235                 240
Glu Lys Ser His Pro Ser Val Pro Tyr His Tyr Phe Glu Lys Gly
                 245                 250                 255
Arg Leu Asp Glu Cys Gln Met Tyr Leu Ala His Glu Gln Ala Pro
                 260                 265                 270
Arg Ser Ala His Arg Phe Ile Thr Glu Lys Ala Val Phe Ser Arg
                 275                 280                 285
Trp Ala Lys Lys Arg Pro Ile Val Phe Ala His Pro Ser Trp Arg
                 290                 295                 300
Thr Glu
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<210> 3
<211> 578
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2210054CD1

<400> 3

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Leu Pro Gln His His Gly Ala Pro Gly Pro Asp Gly Ser Ala Pro
                 20                  25                  30
Asp Pro Ala His Tyr Arg Glu Arg Val Lys Ala Met Phe Tyr His
                 35                  40                  45
Ala Tyr Asp Ser Tyr Leu Glu Asn Ala Phe Pro Phe Asp Glu Leu
                 50                  55                  60
Arg Pro Leu Thr Cys Asp Gly His Asp Thr Trp Gly Ser Phe Ser
                 65                  70                  75
```

```
Leu Thr Leu Ile Asp Ala Leu Asp Thr Leu Leu Ile Leu Gly Asn
                  80                  85                  90
Val Ser Glu Phe Gln Arg Val Val Glu Val Leu Gln Asp Ser Val
                  95                 100                 105
Asp Phe Asp Ile Asp Val Asn Ala Ser Val Phe Glu Thr Asn Ile
                 110                 115                 120
Arg Val Val Gly Gly Leu Leu Ser Ala His Leu Leu Ser Lys Lys
                 125                 130                 135
Ala Gly Val Glu Val Glu Ala Gly Trp Pro Cys Ser Gly Pro Leu
                 140                 145                 150
Leu Arg Met Ala Glu Glu Ala Ala Arg Lys Leu Leu Pro Ala Phe
                 155                 160                 165
Gln Thr Pro Thr Gly Met Pro Tyr Gly Thr Val Asn Leu Leu His
                 170                 175                 180
Gly Val Asn Pro Gly Glu Thr Pro Val Thr Cys Thr Ala Gly Ile
                 185                 190                 195
Gly Thr Phe Ile Val Glu Phe Ala Thr Leu Ser Ser Leu Thr Gly
                 200                 205                 210
Asp Pro Val Phe Glu Asp Val Ala Arg Val Ala Leu Met Arg Leu
                 215                 220                 225
Trp Glu Ser Arg Ser Asp Ile Gly Leu Val Gly Asn His Ile Asp
                 230                 235                 240
Val Leu Thr Gly Lys Trp Val Ala Gln Asp Ala Gly Ile Gly Ala
                 245                 250                 255
Gly Val Asp Ser Tyr Phe Glu Tyr Leu Val Lys Gly Ala Ile Leu
                 260                 265                 270
Leu Gln Asp Lys Lys Leu Met Ala Met Phe Leu Glu Tyr Asn Lys
                 275                 280                 285
Ala Ile Arg Asn Tyr Thr Arg Phe Asp Asp Trp Tyr Leu Trp Val
                 290                 295                 300
Gln Met Tyr Lys Gly Thr Val Ser Met Pro Val Phe Gln Ser Leu
                 305                 310                 315
Glu Ala Tyr Trp Pro Gly Leu Gln Ser Leu Ile Gly Asp Ile Asp
                 320                 325                 330
Asn Ala Met Arg Thr Phe Leu Asn Tyr Tyr Thr Val Trp Lys Gln
                 335                 340                 345
Phe Gly Gly Leu Pro Glu Phe Tyr Asn Ile Pro Gln Gly Tyr Thr
                 350                 355                 360
Val Glu Lys Arg Glu Gly Tyr Pro Leu Arg Pro Glu Leu Ile Glu
                 365                 370                 375
Ser Ala Met Tyr Leu Tyr Arg Ala Thr Gly Asp Pro Thr Leu Leu
                 380                 385                 390
Glu Leu Gly Arg Asp Ala Val Glu Ser Ile Glu Lys Ile Ser Lys
                 395                 400                 405
Val Glu Cys Gly Phe Ala Thr Ile Lys Asp Leu Arg Asp His Lys
                 410                 415                 420
Leu Asp Asn Arg Met Glu Ser Phe Phe Leu Ala Glu Thr Val Lys
                 425                 430                 435
Tyr Leu Tyr Leu Leu Phe Asp Pro Thr Asn Phe Ile His Asn Asn
                 440                 445                 450
Gly Ser Thr Phe Asp Thr Val Ile Thr Pro Tyr Gly Glu Cys Ile
                 455                 460                 465
Leu Gly Ala Gly Gly Tyr Ile Phe Asn Thr Glu Ala His Pro Ile
                 470                 475                 480
Asp Pro Ala Ala Leu His Cys Cys Gln Arg Leu Lys Glu Glu Gln
                 485                 490                 495
```

```
Trp Glu Val Glu Asp Leu Met Arg Glu Phe Tyr Ser Leu Lys Arg
                500                 505                 510
Ser Arg Ser Lys Phe Gln Lys Asn Thr Val Ser Ser Gly Pro Trp
                515                 520                 525
Glu Pro Pro Ala Arg Pro Gly Thr Leu Phe Ser Pro Glu Asn His
                530                 535                 540
Asp Gln Ala Arg Glu Arg Lys Pro Ala Lys Gln Lys Val Pro Leu
                545                 550                 555
Leu Ser Cys Pro Ser Gln Pro Phe Thr Ser Lys Leu Ala Leu Leu
                560                 565                 570
Gly Gln Val Phe Leu Asp Ser Ser
                575
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<210> 4
<211> 461
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2618358CD1

<400> 4

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Met Gly Gly Ser Thr Ala Ala Tyr Gln Val Glu Gly Gly Trp Asp
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Ala Asp Gly Lys Gly Pro Cys Val Trp Asp Thr Phe Thr His Gln
                20                  25                  30
Gly Gly Glu Arg Val Phe Lys Asn Gln Thr Gly Asp Val Ala Cys
                35                  40                  45
Gly Ser Tyr Thr Leu Trp Glu Glu Asp Leu Lys Cys Ile Lys Gln
                50                  55                  60
Leu Gly Leu Thr His Tyr Arg Phe Ser Leu Ser Trp Ser Arg Leu
                65                  70                  75
Leu Pro Asp Gly Thr Thr Gly Phe Ile Asn Gln Lys Gly Ile Asp
                80                  85                  90
Tyr Tyr Asn Lys Ile Ile Asp Asp Leu Leu Lys Asn Gly Val Thr
                95                 100                 105
Pro Ile Val Thr Leu Tyr His Phe Asp Leu Pro Gln Thr Leu Glu
               110                 115                 120
Asp Gln Gly Gly Trp Leu Ser Glu Ala Ile Ile Glu Ser Phe Asp
               125                 130                 135
Lys Tyr Ala Gln Phe Cys Phe Ser Thr Phe Gly Asp Arg Val Lys
               140                 145                 150
Gln Trp Ile Thr Ile Asn Glu Ala Asn Val Leu Ser Val Met Ser
               155                 160                 165
Tyr Asp Leu Gly Met Phe Pro Pro Gly Ile Pro His Phe Gly Thr
               170                 175                 180
Gly Gly Tyr Gln Ala Ala His Asn Leu Ile Lys Ala His Ala Arg
               185                 190                 195
Ser Trp His Ser Tyr Asp Ser Leu Phe Arg Lys Lys Gln Lys Gly
               200                 205                 210
Met Val Ser Leu Ser Leu Phe Ala Val Trp Leu Glu Pro Ala Asp
               215                 220                 225
Pro Asn Ser Val Ser Asp Gln Glu Ala Ala Lys Arg Ala Ile Thr
               230                 235                 240
```

```
Phe His Leu Asp Leu Phe Ala Lys Pro Ile Phe Ile Asp Gly Asp
                245                 250                 255
Tyr Pro Glu Val Val Lys Ser Gln Ile Ala Ser Met Ser Gln Lys
                260                 265                 270
Gln Gly Tyr Pro Ser Ser Arg Leu Pro Glu Phe Thr Glu Glu Glu
                275                 280                 285
Lys Lys Met Ile Lys Gly Thr Ala Asp Phe Phe Ala Val Gln Tyr
                290                 295                 300
Tyr Thr Thr Arg Leu Ile Lys Tyr Gln Glu Asn Lys Lys Gly Glu
                305                 310                 315
Leu Gly Ile Leu Gln Asp Ala Glu Ile Glu Phe Phe Pro Asp Pro
                320                 325                 330
Ser Trp Lys Asn Val Asp Trp Ile Tyr Val Val Pro Trp Gly Val
                335                 340                 345
Cys Lys Leu Leu Lys Tyr Ile Lys Asp Thr Tyr Asn Asn Pro Val
                350                 355                 360
Ile Tyr Ile Thr Glu Asn Gly Phe Pro Gln Ser Asp Pro Ala Pro
                365                 370                 375
Leu Asp Asp Thr Gln Arg Trp Glu Tyr Phe Arg Gln Thr Phe Gln
                380                 385                 390
Glu Leu Phe Lys Ala Ile Gln Leu Asp Lys Val Asn Leu Gln Val
                395                 400                 405
Tyr Cys Ala Trp Ser Leu Leu Asp Asn Phe Glu Trp Asn Gln Gly
                410                 415                 420
Tyr Ser Ser Arg Phe Gly Leu Phe His Val Asp Phe Glu Asp Pro
                425                 430                 435
Ala Arg Pro Arg Val Pro Tyr Thr Ser Ala Lys Glu Tyr Ala Lys
                440                 445                 450
Ile Ile Arg Asn Asn Gly Leu Glu Ala His Leu
                455                 460
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<210> 5
<211> 529
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2912330CD1

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Cys Tyr Phe Ser Ser Gly Ser Cys Gly Lys Val Leu Val Trp Pro
                 20                  25                  30
Thr Glu Phe Ser His Trp Met Asn Ile Lys Thr Ile Leu Asp Glu
                 35                  40                  45
Leu Val Gln Arg Gly His Glu Val Thr Val Leu Ala Ser Ser Ala
                 50                  55                  60
Ser Ile Ser Phe Asp Pro Asn Ser Pro Ser Thr Leu Lys Phe Glu
                 65                  70                  75
Val Tyr Pro Val Ser Leu Thr Lys Thr Glu Phe Glu Asp Ile Ile
                 80                  85                  90
Lys Gln Leu Val Lys Arg Trp Ala Glu Leu Pro Lys Asp Thr Phe
                 95                 100                 105
```

```
Trp Ser Tyr Phe Ser Gln Val Gln Glu Ile Met Trp Thr Phe Asn
                110                 115                 120
Asp Ile Leu Arg Lys Phe Cys Lys Asp Ile Val Ser Asn Lys Lys
                125                 130                 135
Leu Met Lys Lys Leu Gln Glu Ser Arg Phe Asp Val Val Leu Ala
                140                 145                 150
Asp Ala Val Phe Pro Phe Gly Glu Leu Leu Ala Glu Leu Leu Lys
                155                 160                 165
Ile Pro Phe Val Tyr Ser Leu Arg Phe Ser Pro Gly Tyr Ala Ile
                170                 175                 180
Glu Lys His Ser Gly Gly Leu Leu Phe Pro Pro Ser Tyr Val Pro
                185                 190                 195
Val Val Met Ser Glu Leu Ser Asp Gln Met Thr Phe Ile Glu Arg
                200                 205                 210
Val Lys Asn Met Ile Tyr Val Leu Tyr Phe Glu Phe Trp Phe Gln
                215                 220                 225
Ile Phe Asp Met Lys Lys Trp Asp Gln Phe Tyr Ser Glu Val Leu
                230                 235                 240
Gly Arg Pro Thr Thr Leu Ser Glu Thr Met Ala Lys Ala Asp Ile
                245                 250                 255
Trp Leu Ile Arg Asn Tyr Trp Asp Phe Gln Phe Pro His Pro Leu
                260                 265                 270
Leu Pro Asn Val Glu Phe Val Gly Gly Leu His Cys Lys Pro Ala
                275                 280                 285
Lys Pro Leu Pro Lys Glu Met Glu Glu Phe Val Gln Ser Ser Gly
                290                 295                 300
Glu Asn Gly Val Val Val Phe Ser Leu Gly Ser Met Val Ser Asn
                305                 310                 315
Thr Ser Glu Glu Arg Ala Asn Val Ile Ala Ser Ala Leu Ala Lys
                320                 325                 330
Ile Pro Gln Lys Val Leu Trp Arg Phe Asp Gly Asn Lys Pro Asp
                335                 340                 345
Thr Leu Gly Leu Asn Thr Arg Leu Tyr Lys Trp Ile Pro Gln Asn
                350                 355                 360
Asp Leu Leu Gly His Pro Lys Thr Lys Ala Phe Ile Thr His Gly
                365                 370                 375
Gly Met Asn Gly Ile Tyr Glu Ala Ile Tyr His Gly Val Pro Met
                380                 385                 390
Val Gly Val Pro Ile Phe Gly Asp Gln Leu Asp Asn Ile Ala His
                395                 400                 405
Met Lys Ala Lys Gly Ala Ala Val Glu Ile Asn Phe Lys Thr Met
                410                 415                 420
Thr Ser Glu Asp Leu Leu Arg Ala Leu Arg Thr Val Ile Thr Asp
                425                 430                 435
Ser Ser Tyr Lys Glu Asn Ala Met Arg Leu Ser Arg Ile His His
                440                 445                 450
Asp Gln Pro Val Lys Pro Leu Asp Arg Ala Val Phe Trp Ile Glu
                455                 460                 465
Phe Val Met Arg His Lys Gly Ala Lys His Leu Arg Ser Ala Ala
                470                 475                 480
His Asp Leu Thr Trp Phe Gln His Tyr Ser Ile Asp Val Ile Gly
                485                 490                 495
Phe Leu Leu Thr Cys Val Ala Thr Ala Ile Phe Leu Phe Thr Lys
                500                 505                 510
Cys Phe Leu Phe Ser Cys Gln Lys Phe Asn Lys Thr Arg Lys Ile
                515                 520                 525
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Glu Lys Arg Glu

<210> 6
<211> 1772
<212> DNA
<213> Homo sapiens

<220>
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ggccgccacc tccgtctcca acccgcgggg gcgaccgtcc cggggccggc cgccgaagct 180
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tgtatgggtt tcgacagacc atgatgaaat tgagaatgtg gccaaacaat ttggtgcaca 420
agttcatcga agaagttctg aagtttcaaa agacagctct acctcactag atgccatcat 480
agaatttctt aattatcata atgaggttga cattgtagga aatattcaag ctacttctcc 540
atgtttacat cctactgatc ttcaaaaagt tgcagaaatg attcgagaag aaggatatga 600
ttctgttttc tctgttgtga gacgccatca gtttcgatgg agtgaaattc agaaaggagt 660
tcgtgaagtg accgaacctc tgaatttaaa tccagctaaa cggcctcgtc gacaagactg 720
ggatggagaa ttatatgaaa atggctcatt ttattttgct aaaagacatt tgatagagat 780
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<210> 7
<211> 1416
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> 1398
<223> a or g or c or t, unknown, or other

<220>

<221> misc_feature
<223> Incyte ID No: 983984CB1

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caggcccact gtgccgggac ccctgcactt cagtggatat agcagtgtgc cagatgggaa 480
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gtcctgccag ccgccatgcc gttgcggagg cctccgggat gtcccatccc aagccatcac 1260
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<210> 8
<211> 1889
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2210054CB1

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